ROBOT MECHANISM CONTROL BY USING HUMAN IRIS MOVEMENT & WITH BLUETOOTH TECHNOLOGY

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ABSTRACT: In this generation, every people are tend to do their work with easy and more beneficial methodology with less stress and quick accessing. To do every aspects within an instinct we need an device which can work faster with high accuracy and simple accessing techniques. This will be possible by using mobile device to have easy accessing. To achieve these goals we have made use of the Bluetooth technology with an alternate of eye blink sensor to monitor the human iris movement and to control the robot to do what we need. Though the system parts cost may vary for this we have been making use of the mobile device to control the arduino uno, where this mechanism helps us to move from one place to another by an robot system with an eye blink sensor and ultrasonic sensor to sense the obstacles and it also helps us to reach our target. Using this robot mechanism we can have more advantage by reducing human work by moving to needed targets and accessing anything. We have also included sensors to have trouble-free execution. These all have been controlled by using the mobile application through buttons and voice commands.

KEYWORDS: Bluetooth, arduino uno, ultrasonic sensor, eye blink sensor, robot mechanism.

I. INRODUCTION

Nowadays smart phones are becoming more powerful with reinforced processors, larger storage capacities, richer entertainment function and more communication methods. Bluetooth is mainly used for data exchange; add new features to smart phones. Bluetooth technology, created by telecom vendor Ericsson in 1994, shows its advantage by integrating with smart phones. It has changed howpeople use digital device at





home or office. and has transferred traditional wired digital devices wireless devices. A host Bluetooth device is capable of communicating with up to seven Blue tooth modules at same time through one link. Considering its normal working area of within eight meters, it is especially useful in home environment. Thanks for Bluetooth technology and other similar techniques, with dramatic increase in Smart phone users, smart phones have gradually turned into an all-purpose portable device and provided people for their daily use. In recent years, an open-source platform. Android has been widely used in smart phones. Android has complete software package consisting of an operating system, middleware layer and core applications. Different from other existingplatform like iOS (iPhone OS), it comes withsoftware development kit (SDK), which providesessential tools and Application. Using aSmartphone as the "brain" of a robot is already anactive research field with several open opportunities and promising possibilities. In this paper we presenta review of current robots controlled by mobilephone and controlling it to move to our target using Bluetooth technology.

II. PROPOSED SYSTEM

In this paper, we design an robot which is being controlled by using bluetooth technology by button and voice command through arduino bluetooth controller. This proposed system for Arduino microcontroller eyeblink sensor are used to direct the vehicle andultrasonic sensor to detect the obstacle, additionalBluetooth app

used to control the robot through voiceand command .LCD is used to view the status of therobot mechanism.

III. LIST OF MODULES

• ARDUNIO IDE application

Using arduino bluetooth controller the commands have been given in fader mode and with other controller modes where voice controller mode made as added advantage to this advantage

• Assemble the ARDUINO UNO with parts

The robot mechanism is being set up with the arduino uno microcontroller along with the ultrasonic sensor to made it navigate to the target

• Connecting bluetooth with Arduino uno

In connecting the bluetooth to the arduino uno it must be in an discoverable mode and with the specific name node the device has been made paired with the arduino uno to perform the target action

• Controlling using mobile device

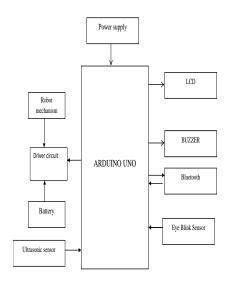
After paring gets successful, we can use the mobile to give voice commands to made it move from one place to other or by fader mode as commanding with front, back, right, front – left, front – right, back – left and back – right by assigning with 0-9 command keys or it by navigating





keys are present in joystick when there is exists on obstacle ultrasonic sensor will sends and its sounds with the help of buzzer and status will be seen in mobile

BLOCK DIAGRAM



IV CONCLUSION

By this project disable person will be benefited by moving to their target It is used for detecting purpose and it is also used for pink and place the objects from one place to another .Those are all controlled by mobile application through buttons and voice commands via Bluetooth and also controlled by eyeblink sensor

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